

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1305745

Luminaire Tested: P3SQAS09R309024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R309024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

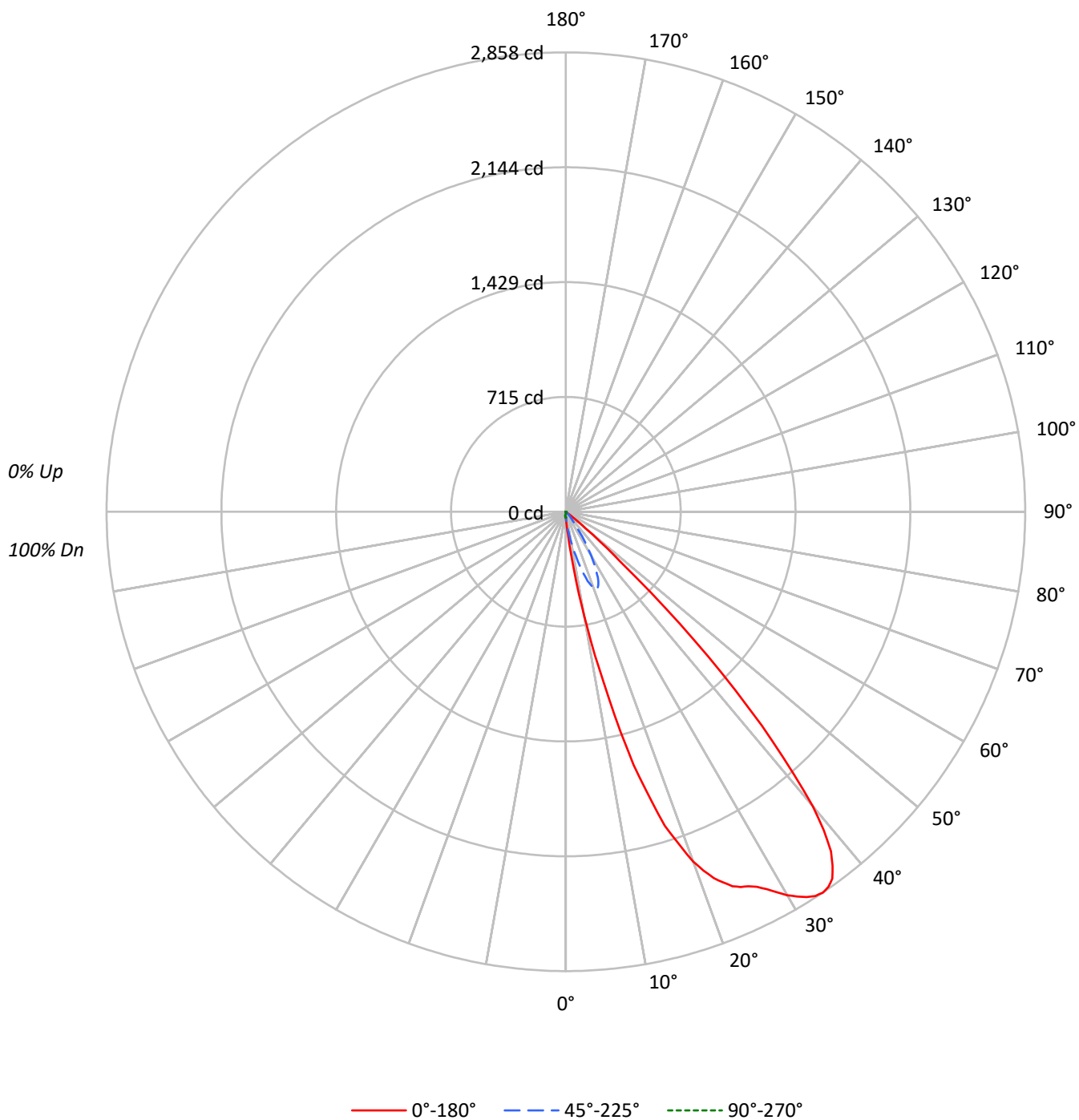
Lumens per Lamp: N/A
Luminaire Lumens: 688.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		78	74	70		76	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6338	6338	6338	6338	6338
5°	22993	14280	5809	2351	1677
10°	113812	34206	4512	455	0
15°	290323	65150	2871	0	0
20°	424228	92646	1191	0	0
25°	489414	90909	247	0	0
30°	547735	62404	0	0	0
35°	599051	26869	0	0	0
40°	537659	10454	0	0	0
45°	274565	4238	0	0	0
50°	42387	509	0	0	0
55°	2522	0	180	0	0
60°	0	0	207	0	0
65°	0	0	530	0	0
70°	0	302	655	0	0
75°	0	399	1264	0	0
80°	0	595	1884	0	0
85°	0	1186	3754	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 274565 cd/sqm

TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	1.1
10°-20°	91.7	13.3
20°-30°	226.5	32.9
30°-40°	260.5	37.9
40°-50°	96.6	14.0
50°-60°	3.5	0.5
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	325.9	47.4
0°-40°	586.4	85.2
0°-60°	686.6	99.8
0°-90°	688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	133	83	34	14	10	29
15°	1628	365	16	0	0	468
25°	2576	478	1	0	0	1190
35°	2849	128	0	0	0	1727
45°	1127	17	0	0	0	878
55°	8	0	1	0	0	29
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	65.2	65.9	65.9	63.9	63.3	62.6	60.7	54.9	45.8	36.8	29.7
5°	133.0	133.6	133.6	129.8	122.0	114.3	107.8	82.6	52.9	33.6	22.0
7.5°	313.8	314.4	300.9	285.4	254.4	238.2	208.5	127.2	60.0	30.3	14.2
10°	650.8	636.6	601.1	555.9	508.1	446.1	383.5	195.6	65.2	25.8	9.0
12.5°	1087.9	1074.4	1028.5	964.0	870.3	749.0	630.2	275.0	65.9	20.7	5.2
15°	1628.3	1590.2	1535.4	1428.2	1290.0	1102.1	905.8	365.4	63.3	16.1	1.3
17.5°	2047.4	2012.5	1942.8	1817.5	1645.8	1437.2	1196.4	451.3	56.2	10.3	0.0
20°	2314.7	2277.9	2212.6	2102.2	1919.5	1674.8	1399.1	505.5	46.5	6.5	0.0
21°	2390.8	2355.3	2291.4	2181.7	1999.6	1755.5	1448.8	517.2	42.0	5.2	0.0
22°	2458.0	2430.2	2370.8	2251.4	2066.1	1814.9	1499.2	518.5	38.7	3.9	0.0
23°	2505.1	2485.1	2425.7	2315.9	2131.3	1863.3	1526.3	510.7	34.9	2.6	0.0
24°	2550.3	2525.8	2474.8	2372.8	2182.9	1904.0	1550.9	496.5	31.0	1.9	0.0
25°	2575.5	2547.1	2507.7	2412.2	2225.6	1929.8	1565.7	478.4	27.1	1.3	0.0
26°	2592.9	2571.0	2527.7	2435.4	2243.6	1946.6	1567.6	452.0	24.5	0.6	0.0
27°	2619.4	2597.5	2555.5	2456.1	2251.4	1944.1	1556.0	421.6	21.3	0.0	0.0
28°	2659.4	2630.4	2588.4	2478.0	2254.6	1933.1	1530.2	388.7	18.1	0.0	0.0
29°	2705.3	2675.6	2629.7	2507.1	2255.3	1911.1	1489.5	352.5	16.1	0.0	0.0
30°	2754.3	2728.5	2682.0	2535.5	2262.4	1882.7	1442.4	313.8	12.9	0.0	0.0
31°	2793.1	2769.8	2720.1	2561.3	2268.2	1858.2	1384.3	275.0	11.0	0.0	0.0
32°	2826.7	2806.0	2744.7	2567.1	2256.5	1823.3	1322.3	237.6	9.0	0.0	0.0
33°	2849.9	2824.1	2752.4	2552.3	2223.0	1765.9	1253.2	202.1	7.1	0.0	0.0
34°	2858.3	2827.3	2740.8	2513.5	2155.2	1678.7	1163.5	165.3	5.8	0.0	0.0
35°	2849.3	2811.2	2698.8	2447.0	2063.5	1574.7	1055.6	127.8	4.5	0.0	0.0
36°	2820.2	2771.8	2638.8	2352.1	1932.4	1452.1	947.8	99.4	3.2	0.0	0.0
37°	2757.6	2704.0	2536.1	2226.8	1802.7	1311.3	825.1	77.5	1.9	0.0	0.0
38°	2680.7	2603.3	2399.2	2068.7	1634.8	1153.1	703.8	63.9	1.3	0.0	0.0
39°	2549.7	2464.4	2236.5	1886.6	1470.1	1002.7	585.6	55.5	0.6	0.0	0.0
40°	2391.5	2290.1	2050.6	1691.6	1275.8	845.2	488.8	46.5	0.6	0.0	0.0
42.5°	1803.9	1718.1	1460.5	1150.5	779.9	498.4	271.2	30.3	0.0	0.0	0.0
45°	1127.3	1037.6	863.2	630.8	422.3	258.3	130.4	17.4	0.0	0.0	0.0
47.5°	460.3	422.3	347.4	267.3	191.1	121.4	54.2	7.7	0.0	0.0	0.0
50°	158.2	140.8	118.2	86.5	61.3	42.0	28.4	1.9	0.0	0.0	0.0
52.5°	45.8	46.5	40.7	34.9	27.1	19.4	14.2	0.0	0.0	0.0	0.0
55°	8.4	7.1	8.4	7.7	8.4	7.1	5.2	0.0	0.0	0.6	0.0
57.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6



TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	36.8	36.8	36.8
2.5°	23.9	21.3	20.0
5°	13.6	10.3	9.7
7.5°	7.1	4.5	3.9
10°	2.6	0.6	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1305745

CATALOG NUMBER: P3SQAS09R309024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)